

REFERENCE PAGE FOR EXAMS

The standard normal distribution function

x	$\Phi(x)$	x	$\Phi(x)$	x	$\Phi(x)$	x	$\Phi(x)$
-3.0	.001	-1.5	.067	.1	.540	1.64	.950
-2.9	.002	-1.4	.081	.2	.579	1.7	.955
-2.8	.003	-1.3	.087	.3	.618	1.8	.964
-2.7	.004	-1.28	.100	.4	.655	1.9	.971
-2.6	.005	-1.2	.115	.5	.691	1.96	.975
-2.5	.006	-1.1	.136	.6	.726	2.0	.977
-2.4	.008	-1.0	.159	.7	.758	2.1	.982
-2.3	.011	-.9	.184	.8	.788	2.2	.986
-2.2	.014	-.8	.212	.9	.816	2.3	.989
-2.1	.018	-.7	.242	1.0	.841	2.33	.990
-2.0	.023	-.6	.274	1.1	.864	2.4	.992
-1.96	.025	-.5	.309	1.2	.885	2.5	.994
-1.9	.029	-.4	.345	1.28	.900	2.6	.995
-1.8	.036	-.3	.382	1.3	.903	2.7	.996
-1.7	.045	-.2	.421	1.4	.919	2.8	.997
-1.64	.050	-.1	.460	1.5	.933	2.9	.998
-1.6	.055	0	.500	1.6	.945	3.0	.999

The Poisson probability function $\frac{e^{-\lambda} \lambda^k}{k!}$ for $k = 0, 1, 2, 3, \dots$

The exponential density $f(x) = \lambda e^{-\lambda x}$ for $x \geq 0$

The exponential distribution function $F(x) = 1 - e^{-\lambda x}$ for $x \geq 0$

The gamma density $f(x) = \frac{\lambda^n e^{-\lambda x} x^{n-1}}{(n-1)!}$ for $x \geq 0$

The gamma distribution function

$$F(x) = 1 - e^{-\lambda x} \left[1 + \lambda x + \frac{(\lambda x)^2}{2!} + \dots + \frac{(\lambda x)^{n-1}}{(n-1)!} \right] \text{ for } x \geq 0$$

The normal density $f(x) = \frac{1}{\sigma \sqrt{2\pi}} e^{-(x-\mu)^2/2\sigma^2}$ for all x